

Laboratory Deep Freezer

LDF 440



TECHNICAL CHARACTERISTICS:

- **Structure** : upright type, realized in sheet steel epoxy coated white colour both in- and outside or in stainless steel 18/10 AISI 304 both in- and outside. All the internal corners are rounded to make easy any cleaning operations and the internal bottom is tray type to contain spills
- **Insulation** : high density (40 Kg/m³) foamed-in-place polyurethane, with a thickness of 50 mm. CFC-free
- **Feet** : Nr 4 made in stainless steel 18/10 AISI 304, adjustable in height for levelling
- **Insulated door** : Nr 1, hinged, made with the same material and insulation as the rest of the structure (sheet steel epoxy coated white colour or stainless steel 18/10 AISI 304 always both in- and outside). The door is provided with a removable magnetic rubber gasket in order to grant a perfect hermetic closing and the closing profile is heated to avoid the gasket frosting. The handle is flush-fitting type so does not increase the size of the refrigerator. The door is also fitted with a spring loaded automatic closing device for openings inferior 90° and special door switch that stops the internal ventilation at the door opening (to limit the air cold loss) and light the internal lighting at every opening
- **Internal equipment** : Nr 3, storage open wire shelves realized sheet steel with a strong plastic coating (rust-proof material). The shelves are mounted on special anti-tilt stainless steel slides that allows the shelf extraction and they can be easily removed and adjusted in height without the use of any tool. The special internal racking-system allows a great flexibility of the internal fitting with the possibility of interchange and combine both shelves and drawers (drawers optionally available)
 - Shelf dimensions (W x D cm) : 46 x 57
 - Shelf loading capability (Kg) : 30 (with uniformly stored material)
- **Internal lighting** : Nr 1 bulb, mounted in the bottom part of the control panel, with automatic activation at every door opening through a special switch
- **Control panel** : located in the top part of the structure (above the door) is compounded by the main switch and digital electronic thermostat with incorporated alarm
 - Main switch : appliance's ON/OFF switch, adjustable in 2 positions, it became illuminated when on the position ON
 - Digital electronic thermostat with incorporated alarm : microprocessor operating, with 4 switches, allowing the control of all the refrigerator functions (maintaining of the setted temperature, defrostings, compressor and fans functioning). The internal temperature is displayed with a LED display, with red colour, bright indication and an accuracy of 0,1°C. Into its functions, the thermostat includes even an alarm, both acoustic (with a buzzer) and visual (with indication LED dots) for temperature deviations, both over or below than the programmed one, with limits that remains adjustable according to the user needs. The acoustic alarm can be even muted through a special switch
- **Cooling unit** : top mounted, with the condensing unit compounded by Nr 1 hermetic compressors and Nr 1 finned condenser, air cooled through a fan. Also, in the ceiling of the storage chamber, is mounted the finned evaporator with copper pipes, that is housed into a plastic cover that incorporate the fan. All the mounted components are industrial grade to grant the maximum reliability
- **Refrigerant** : R404a CFC-free
- **Refrigeration** : forced-air, through a fan, granting the maximum temperature uniformity and stability inside of the cabinet
- **Defrosting** : completely automatic, thermostat controlled. The condensate water is automatically channelled into a tray, with manual emptying, located under the cabinet
- **Temperature range** : infinitely adjustable between -15°C / -30°C
- **Voltage (V/ph/Hz)** : 220-230/1/50
- **Plug** : Schuko type
- **Breakers** : Nr 2 glass cartridge fuses with a rating of 20A, at protection of the appliance
- **Noise level (dB(A))** : ≤ 58
- **Gross capacity (litres)** : 470
- **Net capacity (litres)** : 440
- **Dimensions (W x D x H cm)** : 60 x 70 x 192
- **Net weight (Kg)** : 140
- **Packed dimensions (W x D x H cm)** : 65 x 76 x 202 (1,00 m³)
- **Gross weight (Kg)** : 160

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ACCESSORIES AVAILABLE:

- Extra wire shelf
- Front top for drawer
- Safety door lock with key
- Different voltage
- Stainless steel drawers
- Kit of castors
- Temperature chart recorder
- Wooden crate packing
- Plastic partition for drawer
- Tray for the automatic evaporation of the condensate water
- Electronic temperature printer



* The declared performances are referred at +28°C ambient temperature, relative humidity of 70% and without any internal thermal mass (empty cabinet).

* Should it be necessary or useful without undermining any model essential features, technical and stylistic characteristics are subject to be changed without manufacturer's previous notice.